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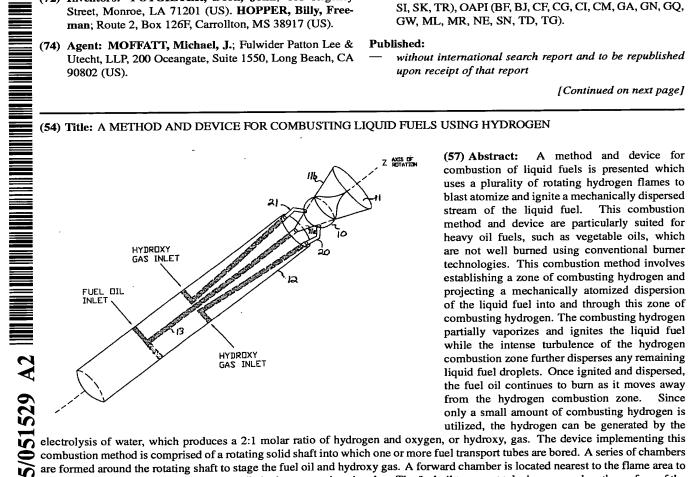
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combustion method is comprised of a rotating solid shaft into which one or more fuel transport tubes are bored. A series of chambers are formed around the rotating shaft to stage the fuel oil and hydroxy gas. A forward chamber is located nearest to the flame area to provide cooling and insulation of the middle hydrogen staging chamber. The fuel oil transport tube has one end on the surface of the shaft which opens into the fuel oil chamber. The other end is fitted with an atomizing nozzle which discharges into the combusting hydrogen zone. Each of the hydroxy gas transport tubes has one end on the surface of the shaft which opens into the hydroxy gas chamber and another end fitted with an angled tube that directs the gas back toward the axis of rotation. Multiple chambers can used to inject other liquid or gaseous streams into the combustion zone as desired. The burner is capable of economically producing heat energy using only vegetable oil, water and power input, which allows it to qualify as an all-renewable energy device.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.